# **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Thursday, January 03, 2008

Hide?	Set Name Query	<u>Hit</u> Count
	DB = PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR = NO; OP = OR	
Γ	L130 (1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or L125) and 194	. 1
Γ	L129 (1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or L125) and 193	1
Γ.	L128 (1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or L125) and 187	1 .
	L127 (1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or L125) and 186	1
Γ	L126 (1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or L125) and (181 or 182)	4
Γ	L125 711/217.ccls.	523
Γ	L124 711/216.ccls.	352
Γ	L123 711/212.ccls.	240
Γ	L122 711/145.ccls.	910
Γ	L121 711/100.ccls.	1762
r.	L120 711/1.ccls.	587
	L119 707/206.ccls.	815
Γ	L118 707/101.ccls.	3562
Γ	L117 707/100.ccls.	5915
Γ	L116 707/8.ccls.	1284
Γ	L115 (L112 or L113 or L114) and (L106 or L107 or L108 or L109 or L110 or L111)	1
Γ	L114 ZHOU-XIN.in.	56
٢	L113 LUEH-GUEI-YUAN.in.	60
Γ	L112 WU-GANSHA.in.	37
	DB=PGPB, USPT, USOC; PLUR=NO; OP=OR	
Γ	L111 L94 and lock\$	1
Γ	L110 L94 and (lock adj1 (information or data))	1
Γ	L109 L93 and lock\$	1
Γ	L108 L93 and (lock adj1 (information or data))	1
Γ	L107 L94 and (hash adj1 code)	1
Γ	L106 L93 and (hash adj1 code)	. 1
	$DB=EPAB,JPAB,DWPI,TDBD;\ PLUR=NO;\ OP=OR$	
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Γ	L105 L101 and L104	1
Γ	L104 "least significant bits"	1108
Γ	L103 L101 and (encod\$ near (bit or bits))	0
Γ	L102 L101 and ((k adj1 bit) or k-bit)	0
Γ	L101 (align\$ near (address or addresses))	137
	DB=PGPB,USPT,USOC; PLUR=NO; OP=OR	
	L100 L98 and (garbage near collect\$)	1
Γ.	L99 L97 and (garbage near collect\$)	1
Γ	L98 L96 and L85	56
Γ	L97 L95 and L85	56
Г	L96 L82 and L83	56
Γ	L95 L81 and L83	56
Г	L94 L91 and (garbage near collect\$)	1
	L93 L92 and (garbage near collect\$)	1
Γ	L92 L85 and L89	. 56
Γ	L91 L85 and L90	56
Γ.	L90 L87 and L84	56
	L89 L86 and L84	. 56
Γ	L88 L86 and l19	0
Г	L87 L82 and L85	64
Г	L86 L81 and L85	56
Г	L85 ((bit or bits) near zero)	20180
Γ	L84 "least significant bits"	19809
Г	L83 (n near (bit or bits))	45767
Г	L82 L79 and (encod\$ same (bit or bits))	71
Γ	L81 L79 and (encod\$ near (bit or bits))	63
Г	L80 L76 and L78	1
Γ.	L79 L77 and L78	79
Γ	L78 ((k adj1 bit) or k-bit)	5007
Γ	L77 (align\$ near (address or addresses))	2235
Γ	L76 (align near (address or addresses))	133
Г	L75 (L68 or L69) and L74	6
Г	L74 L67 and L73	146
Г	L73 ((encod\$ or lock\$ or hash\$ or (garbage adj1 collect\$)) near (bit or bits))	26932
Γ	L72 L71 and address\$	17
Г	L71 L70 and (bit or bits)	17
Г	L70 L69 and (word or words)	20

Γ	L69	(object adj1 header).ab.	41
Γ	L68	(object adj1 header).ti.	1
Γ	L67	(object adj1 header)	1233
	L66	L64 and (encod\$ near (bit or bits))	22
Γ	L65	L64 and (encod\$ near lock\$)	1
Γ	L64	(L58 or L59 or L60 or L61 or L62 or L63) and ((virtual address) with (bit or bits) with (object or objects or class or table or tables))	312
Γ	L63	(707/103R   707/103Y   707/103X   707/103Z).ccls.	2187
Γ	L62	(707/100).ccls.	5915
Γ	L61	(707/8).ccls.	1284
Γ	L60	(711/100).ccls.	1761
Γ	L59	(711/6).ccls.	269
$\Gamma$	L58	(711/2).ccls.	370
Γ	L57	L56 and address.ti.	47
Γ	L56	((bit or bits) near lock)	1984
Γ	L55	(two adj1 bit adj1 lock)	5
Γ	L54	(two-bit adj1 lock)	3
Г	L53	(two-bit lock)	792355
Г	L52	L49 and (lock near (bit or bits))	5
Γ	L51	L49 and (lock with (bit or bits))	22
Γ	L50	L49 and lock	99
Γ	L49	L20 and address.ti.	2306
Г	L48	L47 and address.ti.	0
Γ	L47	L20 and (lock with encode)	51
Γ	L46	L45 and (word or words)	, <u> </u>
Γ	L45	6987813.pn.	1
Γ	L44	L43 and address.ti.	40
Г	L43	L20 and (address same word same n same (bit or bits))	1543
Γ	L42	L41 and virtual	12
Γ	L41	L40 and encod\$	58
Γ	L40	L38 and L39	232
Γ	L39	address.ti.	7410
Γ	L38	(address same word same n same (bit or bits))	7400
Γ	L37	L36 and (n near (bit or bits))	0
Γ	L36	(virtual with encode with (bit or bits) with address)	5
Γ	L35	((object or objects) with virtual with encode with (bit or bits) with address)	. 0
Γ	L34	L32 and memory	28
Γ	L33	L32 an dmemory	18268
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□ L32 L31 and (pointer or pointers)         31           □ L31 L30 and encod\$         80           □ L30 L28 and header.ab.         149           □ L29 L28 and header.ti.         14           □ L29 L28 and header.ti.         14           □ L25 L20 and (address near (bit or bits))         11810           □ L27 L25 and (address near k-bit)         1           □ L26 L24 and L25         1           □ L25 L20 and (encod\$ near lock\$)         96           □ L24 L23 and (pointer or pointers)         2           □ L22 L21 and memory         18           □ L21 L20 and (address near k-bit)         18           □ DB=PGPB; PLUR=NO; OP=OR         2 25511952 5597190 5633515 5666158 5804748 5850927 6012554 6043646 7071869 20060087473 6418140 6633592 5533871 6078931 6085196 4294433 4777978 5347629 5360214 5685776 5835591 5803798 6334212 6424354 20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752 20020131408 20020167948 6907437 6138202 6135635 5002479 5467472 5680616 432170 4439023 4992931 5339312 5430839 5432937 5495509 5604905 5610660 5617455 5729755 5754564 5768447 5819283 5818447 5852664 5974348 6175862 6199100 624913 6249788 6317500 63151815 5649218 5834040 6026192 6359910 20040124158 20050115911 6147944 6400889 6173258 6475871 20060107175 5710499 6134627 5900001 59020876 5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882 4939672 5289536 5325492 53675737 5611076 5705762 5713014 5764987 5825372 5003000 590000 590000 5900000 591144 5915255 5930807 5940808 5908174 5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830 6219830 6233252 6263338 614				
F		L32	L31 and (pointer or pointers)	31
□         L29         L28 and header.ti.         14           □         L28         L20 and (address near (bit or bits))         11810           □         L27         L25 and (address near k-bit)         1           □         L25         L24 and L25         1           □         L25         L20 and (encod\$ near lock\$)         96           □         L21         L23 and (pointer or pointers)         2           □         L22         L21 and memory         18           □         L21         L20 and (address near k-bit)         18           □         DB=PGPB, PLUR=NO; OP=OR         25551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646         7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543           □         4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354         20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752         20020131408 20020167948 6907437 6138202 6135633 5002479 5467472         5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509         5604905 5610660 5617455 5729755 5754546 5768447 5819283 5818447         5852644 5974548 6175862 6199100 6249319 6249788 6317500 6351815         5649218 5834040 6026192 6359910 200401124158 20050115911 6147944         6400888 61732258 6475871 20060107175 5710499 6134672 5900001 5920876         5687368 5761510 5832268 5970242 6223344 6223344 6223344 623344 543478748         48782334 467443 4580264 4841484 5915255 59	Γ	L31	L30 and encod\$	80
Γ         L28         L20 and (address near (bit or bits))         11810           Γ         L27         L25 and (address near k-bit)         1           Γ         L26         L24 and L25         1           Γ         L25         L20 and (encod\$ near lock\$)         96           Γ         L24         L23 and (pointer or pointers)         2           Γ         L23         L22 and lock         2           Γ         L21         L21 and memory         18           Γ         L21         L20 and (address near k-bit)         18           DB=PGPB, PLUR=NO; OP=OR         2 5551952 5597190 5633515 5666118 5804748 5850927 6012554 6043646         7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543 4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354 20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752 20020131408 20020167948 6907437 6138202 6135653 5002479 5467472 5680616 4432170 4498023 4992931 53339312 5430839 5432937 5495509 5604905 5610660 5617455 5729755 5754546 5768447 5819283 5818447 5852644 5874454 581283 5818447 5852644 5874458 518238 781846 5649218 5834040 6026192 6359910 20040124158 20050115911 6147944 6400889 6173256 6475817 20060107175 5710499 6134627 500001 5920876 5687368 5761510 5832268 5970242 6223344 6223344 623344 6233043 4772882 4939672 5289536 5325492 5367578 5611076 5705762 5713014 5764987 589279 5903900 5911144 5915255 5930807 5948058 5968157 5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830 6219830 62532525 6049810 6052729 6115782 6116008 6219830 6219830 6219830 62253252 603338 6314585 6	_	L30	L28 and header.ab.	149
Γ         L27         L25 and (address near k-bit)         1           Γ         L26         L24 and L25         1           Γ         L25         L20 and (encod\$ near lock\$)         96           Γ         L24         L23 and (pointer or pointers)         2           Γ         L23         L22 and lock         2           Γ         L22         L21 and memory         18           Γ         L21         L20 and (address near k-bit)         18           DB=PGPB: PLUR=NO; OP=OR         2 5551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646         7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543           4777978 53477629 5360214 5685776 5835591 5893798 6334212 6422454         20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752           20020131408 20020167948 6907437 6138202 6135653 5002479 5467472         5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509           5604905 5610660 5617455 5729755 5754564 5768447 5819283 8818447         5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815           5649218 5834040 6026192 6359910 20040124158 20050115911 6147944         6400889 6173258 6475871 20060107175 5710499 6134627 5900001 5920876           5687368 5761510 5832226 89970242 6223344 6223744 622344 623704 427344         4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987         5825767 5875299 5903900 5911144 5915255 5930807 5948058 5968157	Γ	L29	L28 and header.ti.	14
Γ         L26         L24 and L25         1           Γ         L25         L20 and (encod\$ near lock\$)         96           Γ         L24         L23 and (pointer or pointers)         2           Γ         L23         L22 and lock         2           Γ         L22         L21 and memory         18           Γ         L21         L20 and (address near k-bit)         18           DB=PGPBP, PLUR=NO; OP=OR         2 5551952 5597190 5633515 5666158 5804748 5850927 60012554 6043646         7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543           4777978 5347629 5360214 5685776 5835591 5889789 6334212 6424354         20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752           20020131408 20020167948 6907437 6138202 6135653 5002479 5467472         5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509           5604905 5610660 5617455 5729755 5754564 5768447 5819283 5818447         5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815           5649218 5834040 6026192 6359910 20040124158 20050115911 6147944         6400889 617323258 6475871 20060107175 5710499 6134627 5900001 5920876           5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882         4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987           5825767 58755299 5903000 5911144 49152255 59308007 59948058 5968157         5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830	Γ.	L28	L20 and (address near (bit or bits))	11810
Γ       L25       L20 and (encod\$ near lock\$)       96         Γ       L24       L23 and (pointer or pointers)       2         Γ       L23       L22 and lock       2         Γ       L22       L21 and memory       18         R       L21       L20 and (address near k-bit)       18         DB=PGPB; PLUR=NO; OP=OR       2 5551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646       7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543         4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354       20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752         20020131408 20020167948 6907437 6138202 6135653 5002479 5467472       5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509         56804905 5610660 5617455 5729755 57554564 5768447 5819283 5818447       5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815         5649218 5834040 6026192 6359910 20040124158 20050115911 6147944       6400889 6173258 6475871 20660107175 5710499 6134627 5900001 5920876         5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882       4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987         58225767 5875299 59003900 5911144 5915255 5930807 5948058 5968157       5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830       6253252 6263338 6314558 6373846 6434685 6457019 6499137 6567837         66786697 6691304 6754898 6888158 69331423 7028287 200200099902       2002019	Γ.	L27	L25 and (address near k-bit)	1
□       L24       L23 and (pointer or pointers)       2         □       L23       L22 and lock       2         □       L22       L21 and memory       18         □       L21       L20 and (address near k-bit)       18         □       L21       L20 and (address near k-bit)       18         □       DB=PGPB; PLUR=NO; OP=OR       25551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646       7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543         4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354       20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752         20020131408 20020167948 6907437 6138202 6135653 5002479 5467472       5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509         5604905 5610660 5617455 5729755 5754564 5768447 58192283 5818447       5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815         5649218 5834040 6026192 6359910 20040124158 20050115911 6147944       6400889 6173258 647871 20060107175 5710499 6134627 5900001 5920876         5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882       4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987         5825767 5875299 5903900 5911144 5915255 5930807 5948058 5968157       5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830         6253325 26263338 6314558 6373846 6434685 6457019 6499137 65567837       6678697 6691304 6754898 6886159 6931423 7028287 20020099902	Γ	L26	L24 and L25	1
□       L23       L22 and lock       2         □       L22       L21 and memory       18         □       L21       L20 and (address near k-bit)       18         □       DB=PGPB; PLUR=NO; OP=OR       18         □       25551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646       7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543         □       4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354       20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752         □       20020131408 20020167948 6907437 6138202 6135653 5002479 5467472       5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509         ○       5604905 5610660 5617455 5729755 5754564 5768447 5819283 5818447       5825664 5974548 6175862 6199100 6249319 6249788 6317500 6351815         ○       5649218 5834040 6026192 6359910 20040124158 20050115911 6147944       6400889 6173258 6475871 20060107175 5710499 6134627 5900001 5920876         ○       5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882       4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987         ○       582567 5875299 5903900 5911144 5915255 5930807 5948058 5968157       5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830       6253252 6263338 6314558 6373846 6434685 6457019 6499137 65567837         □       6678697 6691304 6754898 6886159 6931423 7028287 20020099902       20020194191 20030093577 20030097396 20030105772 20030236819	Ē	L25	L20 and (encod\$ near lock\$)	96
□       L22       L21 and memory       18         □       L21       L20 and (address near k-bit)       18         □       DB=PGPB; PLUR=NO; OP=OR       18         □       2 5551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646       7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543         4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354       20060082597 6098185 6278338 6341198 5600768 6324178 6334213 6442752         20020131408 20020167948 6907437 6138202 6135653 5002479 5467472       5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509         5604905 5610660 5617455 5729755 5754564 5768447 5819283 5818447       5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815         5649218 5834040 6026192 6359910 20040124158 20050115911 6147944       6400888 6173258 64785871 20060107175 5710499 6134627 590001 5920876         5687368 5761510 5832268 5970242 6223344 6223344 6223044 6237043 4772882       4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987         5999730 6038572 6049810 6052729 6115782 6116008 6219830 6219830       6253252 6263338 6314558 6373846 6434685 6457019 6499137 6567837         6078697 6691304 6754898 6886159 6931423 7028287 20020099902       102020194191 20030093577 20030097396 20030105772 20030236819       1048918         120       20020194191 20030093577 20030097396 20030105772 20030236819       20040200172 20060016139 5960436 5276868 5471487 5623449 5644784       5968125 6055616 6075931 6138208 6260011 20030225998 20050	Г	L24	L23 and (pointer or pointers)	. 2
L21       L20 and (address near k-bit)       18         DB=PGPB; PLUR=NO; OP=OR       2 5551952 5597190 5633515 5666158 5804748 5850927 6012554 6043646 7071869 20060087473 6418140 6633592 5539871 6078931 6085196 4294543 4777978 5347629 5360214 5685776 5835591 5893798 6334212 6424354 20060082597 6098185 6278838 6341198 5600768 6324178 6334212 6424354 20060082597 6098185 6278838 6341198 5600768 6324178 6334213 6442752 200220131408 20020167948 6907437 6138202 6135653 5002479 5467472 5680616 4432170 4498023 4992931 5339312 5430839 5432937 5495509 5604905 5610660 5617455 5729755 5754564 5768447 5819283 5818447 5852664 5974548 6175862 6199100 6249319 6249788 6317500 6351815 5649218 5834040 6026192 6359910 20040124158 20050115911 6147944 6400889 6173258 64785871 20060107175 5710499 6134627 590001 5920876 5687368 5761510 5832268 5970242 6223344 6223344 6237043 4772882 4939672 5289536 5325492 5367573 5611076 5705762 5713014 5764987 5825767 5875299 5903900 5911144 5915255 5930807 5948058 5968157 5999730 60388572 6049810 6052729 6115782 6116008 6219830 6219830 6253252 6263338 6314558 6373846 6434685 6457019 6499137 6567837 6678697 6691304 6754898 6886159 6931423 7028287 20020099902       1648918         L20       20020194191 20030093577 20030097396 20030105772 20030236819 20040001010 20040205701 20050149587 20060077993 20060126956 44588333 4467443 4580264 4841486 5278906 6064958 6964018 69996022 20010036318 20050182794 20050188296 20040252119 5993218 4927147 5727788 8839902 6324631 5471471 5471472 5657314 5673318 5757913 5844907 6389031 20030043806 4341521 4344243 4378118 4495230 4573927 4583006 5180337 5291674 5345961 5528496 5557202 5677626 6246231 20040200172 20060016139 5960436 5276868 5471487 5623449 5644784 5968125 6055616 6075931 6138208 6260011 20030225998 20050223329 20060106986 5201277 58788427 5893913 5999648 60789926 4290421 4364056 4420265 4511248 4608662 47559555 4756448 4774666 49	Γ	L23	L22 and lock	2
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Γ	L15	L4 and (address same word same n same (bit or bits))	33
Γ	L14	L3 and L13	4
Γ	L13	(address same word same n same (bit or bits))	7400
Γ	LÏ2	L11 and (address same n same (bit or bits))	9
Г	L11	L3 and (n near (bit or bits))	29
Γ	L10	L9 and (n near (bit or bits))	2
Г	L9	L3 and (header with pointer with (bit or bits))	18
	L8	L6 and (header with pointer with (bit or bits))	9
Γ	L7	L6 and (k near (bit or bits))	28
Γ	L6	L5 and (n near (bit or bits))	153
Γ	L5	L4 and bit\$.ab.	956
Γ	L4	header.ab.	13759
Г	L3	header.ti.	2641
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Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract, references, cited by

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson January 1983 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: 🔁 pdf(33.56 MB) Additional Information: full citation, abstract, cited by, index terms, review

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

Efficient implementation of bit-vector operation in Common Lisp

Henry G. Baker

April 1990 ACM SIGPLAN Lisp Pointers, Volume III Issue 2-4

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, index terms

In this paper we show various techniques for the efficient implementation of the various functions of Common Lisp involving bit-vectors and bit-arrays. Bit-vectors are extremely

10/790, 23U

useful for computing everything from the Sieve of Eratosthenes for finding prime numbers, to the representation of sets and relations, to the implementation of natural language parsers, to the performance of flow analysis in an optimizing compiler, to the manipulation of complex communication codes like those used ...

Programming languages: Garbage collection for embedded systems



David F. Bacon, Perry Cheng, David Grove

September 2004 Proceedings of the 4th ACM international conference on Embedded software EMSOFT '04

Publisher: ACM Press

Full text available: pdf(199.59 KB)

Additional Information: full citation, abstract, references, citings, index terms

Security concerns on embedded devices like cellular phones make Java an extremely attractive technology for providing third-party and user-downloadable functionality. However, garbage collectors have typically required several times the maximum live data set size (which is the minimum possible heap size) in order to run well. In addition, the size of the virtual machine (ROM) image and the size of the collector's data structures (metadata) have not been a concern for server- or workstation-orien ...

Keywords: compaction, fragmentation, mark-and-sweep, tracing

5 Cost-effective object space management for hardware-assisted real-time garbage





collection

Kelvin D. Nilsen, William J. Schmidt

December 1992 ACM Letters on Programming Languages and Systems (LOPLAS),

Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.29 MB)

Additional Information: full citation, abstract, references, citings, index terms

Modern object-oriented languages and programming paradigms require finer-grain division of memory than is provided by traditional paging and segmentation systems. This paper describes the design of an OSM (Object Space Manager) that allows partitioning of real memory on object, rather than page, boundaries. The time required by the OSM to create an object, or to find the beginning of an object given a pointer to any location within it, is approximately one memory cycle. Object sizes are lim ...

Keywords: automatic garbage collection, dynamic storage management, high-level language architectures, memory technologies, real-time and embedded systems, run-time environments

6 New garbage collection algorithms and strategies: Dynamic selection of application-





specific garbage collectors

Sunil Soman, Chandra Krintz, David F. Bacon

October 2004 Proceedings of the 4th international symposium on Memory management ISMM '04

Publisher: ACM Press

Full text available: pdf(185.74 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Much prior work has shown that the performance enabled by garbage collection (GC) systems is highly dependent upon the behavior of the application as well as on the available resources. That is, no single GC enables the best performance for all programs and all heap sizes. To address this limitation, we present the design, implementation, and empirical evaluation of a novel Java Virtual Machine (JVM) extension that facilitates

dynamic switching between a number of very different and popular q ...

Keywords: Java, annotation, application-specific collection, dynamic selection, hotswapping, virtual machine

Cycles to recycle: garbage collection to the IA-64

Richard L. Hudson, J. Elliot Moss, Sreenivas Subramoney, Weldon Washburn October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management ISMM '00, Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, citings, index terms

The IA-64, Intel's 64-bit instruction set architecture, exhibits a number of interesting architectural features. Here we consider those features as they relate to supporting garbage collection (GC). We aim to assist GC and compiler implementors by describing how one may exploit features of the IA-64. Along the way, we record some previously unpublished object scanning techniques, and offer novel ones for object allocation (suggesting some simple operating system support that would simplify it ...

Tag-free garbage collection for strongly typed programming languages

Benjamin Goldberg

May 1991 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1991 conference on Programming language design and implementation PLDI '91, Volume 26

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

Concurrent garbage collection using hardware-assisted profiling

Timothy H. Heil, James E. Smith

October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management ISMM '00, Volume 36 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(1.74 MB) Additional Information: full citation, abstract, citings, index terms

In the presence of on-chip multithreading, a Virtual Machine (VM) implementation can readily take advantage of service threads for enhancing performance by performing tasks such as profile collection and analysis, dynamic optimization, and garbage collection concurrently with program execution. In this context, a hardware-assisted profiling mechanism is proposed. The Relational Profiling Architecture (RPA) is designed from the top down. RPA is based on a relational model similar ...

10 Conservative garbage collection for general memory allocators

Gustavo Rodriguez-Rivera

October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management ISMM '00, Volume 36 Issue 1

Publisher: ACM Press

Full text available: The pdf(829.20 KB) Additional Information: full citation, abstract, citings, index terms

This paper explains a technique that integrates conservative garbage collection on top of general memory allocators. This is possible by using two data structures named malloctables and jump-tables that are computed at garbage collection time to map pointers to beginning of objects and their sizes. This paper describes malloc-tables and jump-tables, an implementation of a malloc/jump-table based conservative garbage collector for Doug Lea's memory allocator, and experimental results that com ...

Keywords: automatic memory management, conservative garbage collection, memory allocation

11 Ada development system technical and performance requirements (with rationale)



Donald G. Krantz

December 1990 Proceedings of the conference on TRI-ADA '90 TRI-Ada '90

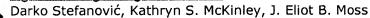
Publisher: ACM Press

Full text available: pdf(1.85 MB)

Additional Information: full citation, abstract, references

This paper discusses requirements for Ada1 compilers and associated tools used for realtime embedded weapons systems (EWS) development. The requirements have been developed over a period of several years by embedded systems developers at Honeywell Inc. and Alliant Techsystems Inc. Requirements for the run time system, compilergenerated code, and host tools such as linkers are presented. A short rationale statement is provided with each specific requirement.

12 Age-based garbage collection



October 1999 ACM SIGPLAN Notices, Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99, Volume 34 Issue 10

Publisher: ACM Press

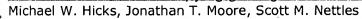
Full text available: pdf(1.47 MB)

Additional Information: full citation, abstract, references, citings, index terms

Modern generational garbage collectors look for garbage among the young objects, because they have high mortality; however, these objects include the very youngest objects, which clearly are still live. We introduce new garbage collection algorithms, called age-based, some of which postpone consideration of the youngest objects. Collecting less than the whole heap requires write barrier mechanisms to track pointers into the collected region. We describe her ...

Keywords: garbage collection, generational and copy collection, object behavior, write barrier

13 The measured cost of copying garbage collection mechanisms



August 1997 ACM SIGPLAN Notices, Proceedings of the second ACM SIGPLAN international conference on Functional programming ICFP '97, Volume 32 Issue 8

Publisher: ACM Press

Full text available: pdf(1.65 MB)

Additional Information: full citation, abstract, references, citings, index terms

We examine the costs and benefits of a variety of copying garbage collection (GC) mechanisms across multiple architectures and programming languages. Our study covers both low-level object representation and copying issues as well as the mechanisms needed to support more advanced techniques such as generational collection, large object spaces, and type segregated areas. Our experiments are made possible by a novel performance analysis tool, Oscar. Oscar allows us to capture snapshots of pr ...

14 MC2: high-performance garbage collection for memory-constrained environments

Narendran Sachindran, J. Eliot B. Moss, Emery D. Berger

October 2004 ACM SIGPLAN Notices, Proceedings of the 19th annual ACM SIGPLAN



# conference on Object-oriented programming, systems, languages, and applications OOPSLA '04, Volume 39 Issue 10

Publisher: ACM Press

Full text available: pdf(503.53 KB)

Additional II

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Java is becoming an important platform for memory-constrained consumer devices such as PDAs and cellular phones, because it provides safety and portability. Since Java uses garbage collection, efficient garbage collectors that run in constrained memory are essential. Typical collection techniques used on these devices are mark-sweep and mark-compact. Mark-sweep collectors can provide good throughput and pause times but suffer from fragmentation. Mark-compact collectors prevent fragmentation, ...

**Keywords**: copying collector, generational collector, java, mark-compact, mark-copy, mark-sweep, memory-constrained copying

### 15 Compact garbage collection tables

David Tarditi

October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management ISMM '00, Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(958.92 KB) Additional Information: full citation, abstract, index terms

Garbage collection tables for finding pointers on the stack can be represented in 20-25% of the space previously reported. Live pointer information is often the same at many call sites because there are few pointers live across most call sites. This allows live pointer information to be represented compactly by a small index into a table of descriptions of pointer locations. The mapping from program counter values to those small indexes can be represented compactly using several techniques. T ...

## 16 Space efficient conservative garbage collection

Hans-Juergen Boehm

June 1993 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1993 conference on Programming language design and implementation PLDI '93, Volume 28 Issue 6

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

We call a garbage collector conservative if it has only partial information about the location of pointers, and is thus forced to treat arbitrary bit patterns as though they might be pointers, in at least some cases. We show that some very inexpensive, but previously unused techniques can have dramatic impact on the effectiveness of conservative garbage collectors in reclaiming memory. Our most significant observation is that static data that appears to point to the heap should not result i ...

## 17 Selected writings on computing: a personal perspective

Edsger W. Dijkstra January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract, references, cited by, index terms

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general

became more and more important. The circumstance that my employe ...

18 An on-the-fly reference-counting garbage collector for java

Yossi Levanoni, Erez Petrank

January 2006 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(787.15 KB) Additional Information: full citation, abstract, references, index terms

Reference-counting is traditionally considered unsuitable for multiprocessor systems. According to conventional wisdom, the update of reference slots and reference-counts requires atomic or synchronized operations. In this work we demonstrate this is not the case by presenting a novel reference-counting algorithm suitable for a multiprocessor system that does not require any synchronized operation in its write barrier (not even a compare-and-swap type of synchronization). A second novelty of thi ...

Keywords: Programming languages, garbage collection, memory management, reference-counting

19 Mondrian memory protection

Emmett Witchel, Josh Cates, Krste Asanović

October 2002 ACM SIGPLAN Notices, ACM SIGARCH Computer Architecture News, ACM SIGOPS Operating Systems Review , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X, Volume 37, 30, 36 Issue 10, 5, 5

Publisher: ACM

Full text available: 📆 pdf(1.53 MB) Additional Information: full citation, abstract, references, cited by

Mondrian memory protection (MMP) is a fine-grained protection scheme that allows multiple protection domains to flexibly share memory and export protected services. In contrast to earlier page-based systems, MMP allows arbitrary permissions control at the granularity of individual words. We use a compressed permissions table to reduce space overheads and employ two levels of permissions caching to reduce run-time overheads. The protection tables in our implementation add less than 9% overhead to ...

20 Java object header elimination for reduced memory consumption in 64-bit virtual

machines

Kris Venstermans, Lieven Eeckhout, Koen De Bosschere

September 2007 ACM Transactions on Architecture and Code Optimization (TACO),

Volume 4 Issue 3

Publisher: ACM Press

Full text available: 🔁 pdf(722.38 KB) Additional Information: full citation, abstract, references, index terms

Memory performance is an important design issue for contemporary computer systems given the huge processor/memory speed gap. This paper proposes a space-efficient Java object model for reducing the memory consumption of 64-bit Java virtual machines. We completely eliminate the object header through typed virtual addressing (TVA) or implicit typing. TVA encodes the object type in the object's virtual address by allocating all objects of a given type in a contiguous memory segment. This allows ...

**Keywords**: 64-bit implementation, Java object model, Virtual machine, implicit typing, typed virtual addressing

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Venstermans, K.; Eeckhout, L.; De Bosschere, K.;

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Kovacevic, M.; Diligenti, M.; Gori, M.; Milutinovic, V.; Data Mining, 2002. ICDM 2002. Proceedings. 2002 IEEE International Confer

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